## **UTAH CTE SKILL CERTIFICATE PROGRAM**

## MECHANICAL DRAFTING STUDENT PERFORMANCE EVALUATION TEST #546

The performance evaluation is a required component of the Skill Certification process. Each student <b>must be evaluated</b> on the required performance standards. Performance standards may be completed and <b>evaluated anytime during the course</b> .	151304-02 The student will be able to demonstrate the use of auxiliary views.	1	2	3			
<ul> <li>Students should be aware of their progress throughout the course, so that they can concentrate on the objectives that need improvement.</li> </ul>	Create a primary auxiliary view from any orthographic projection.			_			
• Students should be encouraged to repeat the objectives until they have performed at a minimum of a number 1 or 2 on the	Draw folding lines or reference-plane lines between any two adjacent views.						
rating scale (moderately to highly competent level).  1= highly competent Successfully demonstrated without supervision							
2= moderately competent Successfully demonstrated with limited supervision	Construct depth, height, or width auxiliary views.						
3= limited competence Demonstrated with close supervision 4= not competent Demonstration requires direct instruction and supervision	Plot circles and arcs are drawn to conform with the intersection of projection lines and transferred l						
When a standard has been achieved at a minimum of 80% (moderately to highly competent level). "Y" (Y=YES) is recorded on the last line of that standard, on the performance evaluation sheet. If a student does not achieve a 1 or a 2	Construct partial auxiliary views.						
(moderately to highly competent level), then "N" (N=NO) is recorded on the last line of that standard.	Create auxiliary sectional views.						
<ul> <li>All performance standards MUST be completed and evaluated prior to the written test.</li> <li>The teacher will bubble in "A" on the answer sheet for item #81 for students who have achieved "Y" on ALL performance standards.</li> </ul>	Find the true size and length of an oblique line by constructing an auxiliary view.						
• The teacher will bubble in "B" on the answer sheet for item #81 for students who have ONE or more "N's" on the	Create secondary auxiliary views.						
<ul> <li>performance standards.</li> <li>The signed performance evaluation sheet(s) MUST be kept in the teachers' file for two years.</li> </ul>							
<ul> <li>A copy is also kept on file with the school's ATE Skill Certification testing coordinator for two years.</li> </ul>	151304-03 The student will be able to demonstrate the use of intersections and	П	$\exists$	_			
Students who achieve a 1 or a 2 (moderately to highly competent) on ALL performance standards and 80% on the written test will be issued an ATE Skill Certificate.	developments.	1	2	3			
issued all ATE Skill Collineate.	Parallel lines.						
151304-01 The student will be able to develop a technical drawing using standard sectional views such as full, half, offset, broken-out, removed, and revolved.	Radial.						
Show that section drawings are completed according to ANSI standards.	Triangulation.						
Show that section lines are drawn at a Forty-five (45) degree angle unless a more appropriate angle is justified.							
Construct section lines dark and very thin.	151304-04 The student will be able to understand and demonstrate the use of fasteners.	1	2	3			
Develop cutting plane lines according to the alphabet of lines.	Develop different thread forms.			_			
Develop break lines according to the alphabet of lines.	Calculate thread pitch.						
Show that section lines are spaced uniformly.	Write different thread notes.						
Show visible edges and contours behind the cutting plane correctly.	Draw the simplified, schematic, internal and external type threads.						
Demonstrate that hidden lines are omitted.	Work with American National, Unified and metric threads.						

Draw blind, through, and clearance holes, studs, cap machine screws, pins and specialty fasteners.

Correctly draw, locate, and label fasteners on production, assembly drawings, and parts lists.

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	1304-05 The student will be able to understand and demonstrate the use of pictorial awings.	1	2	3	4
	Construct angles on an isometric.				
	Construct isometric circles and arcs.				
	Construct and isometric in the center of a drawing space.				
	Construct an oblique drawing in the center of a drawing space.				
	Construct angle on an oblique drawing.				
	Construct oblique circles.				
	Construct a cavalier oblique drawing of a given object.				
	Construct a cabinet oblique drawing of a given object.				
	Construct a drawing to the appropriate size and scale.				
	Construct a one-point perspective.				
	Construct a two-point perspective.				
	1304-06 The student will be able to understand and demonstrate the basics of cometric Dimensioning and Tolerancing (GD&T).	1	2	3	4
	Understand and use basic GD&T symbols.				
	Create limit dimensions.				
	Dimension two mating parts using limit dimension, unilateral tolerances, and bilateral tolerances.	eranc	es.		
	Draw geometric tolerancing symbols.				
	Specify position and geometric tolerances.				
	Draw and place feature control symbols and datum references on a drawing.				
	Specify positional tolerances in reference to maximum material condition (MMC), regard size (RFS), and least material condition (LMC).	less (	of fe	atur	e
	Specify and apply the tolerance symbols, tolerances and Datums on various drawings.				
15	1304-07 The student will be able to understand and identify basic welding symbols.	1	2	3	4
	Understand, identify and draw basic weld symbols.				
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	1304-08 The student will be able to understand and demonstrate applied athematics.	1	2	3	4
	Perform basic arithmetic functions.				
	Convert fractions/decimals.				
	Convert metric/inch measurements.				

51304-09 The student will be able to understand	and assemble wo	rking drawings.		1	2	3	4
Develop a set of working drawings of six or mor			s.				
1304-10 The student will be able to understand	and identify man	ufacturing					
cocesses.	and identity man	uracturing		1	2	3	4
Develop a set of working drawings of six or mor	re parts, of industry	assembled parts	l				
The instructor must retain a	conv of this	Student P	erfoi	'n	ıar	ice	
Evaluation for two years after							•
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